

Claims

[c1] An isolated nucleic acid having at least 80% nucleic acid sequence identity to:

- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 52 (SEQ ID NO:52);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 52 (SEQ ID NO:52), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 52 (SEQ ID NO:52);
- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 52 (SEQ ID NO:52), lacking its associated signal peptide;
- (e) the nucleic acid sequence shown in Figure 51 (SEQ ID NO:51);
- (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 51 (SEQ ID NO:51); or
- (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203245.

[c2] The isolated nucleic acid of Claim 1 having at least 85% nucleic acid sequence identity to:

- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 52 (SEQ ID NO:52);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 52 (SEQ ID NO:52), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 52 (SEQ ID NO:52);
- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 52 (SEQ ID NO:52), lacking its associated signal peptide;
- (e) the nucleic acid sequence shown in Figure 51 (SEQ ID NO:51);
- (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 51 (SEQ ID NO:51); or
- (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203245.

[c3] The isolated nucleic acid of Claim 1 having at least 90% nucleic acid sequence identity to:

- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 52 (SEQ ID NO:52);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 52 (SEQ ID NO:52), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 52 (SEQ ID NO:52);
- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 52 (SEQ ID NO:52), lacking its associated signal peptide;
- (e) the nucleic acid sequence shown in Figure 51 (SEQ ID NO:51);
- (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 51 (SEQ ID NO:51); or
- (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203245.

[c4]

The isolated nucleic acid of Claim 1 having at least 95% nucleic acid sequence identity to:

- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 52 (SEQ ID NO:52);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 52 (SEQ ID NO:52), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 52 (SEQ ID NO:52);
- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 52 (SEQ ID NO:52), lacking its associated signal peptide;
- (e) the nucleic acid sequence shown in Figure 51 (SEQ ID NO:51);
- (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 51 (SEQ ID NO:51); or
- (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203245.

[c5]

The isolated nucleic acid of Claim 1 having at least 99% nucleic acid sequence identity to:

- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 52 (SEQ ID NO:52);

- (b)a nucleic acid sequence encoding the polypeptide shown in Figure 52 (SEQ ID NO:52), lacking its associated signal peptide;
- (c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 52 (SEQ ID NO:52);
- (d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 52 (SEQ ID NO:52), lacking its associated signal peptide;
- (e)the nucleic acid sequence shown in Figure 51 (SEQ ID NO:51);
- (f)the full-length coding sequence of the nucleic acid sequence shown in Figure 51 (SEQ ID NO:51); or
- (g)the full-length coding sequence of the cDNA deposited under ATCC accession number 203245.

[c6]

An isolated nucleic acid comprising:

- (a)a nucleic acid sequence encoding the polypeptide shown in Figure 52 (SEQ ID NO:52);
- (b)a nucleic acid sequence encoding the polypeptide shown in Figure 52 (SEQ ID NO:52), lacking its associated signal peptide;
- (c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 52 (SEQ ID NO:52);
- (d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 52 (SEQ ID NO:52), lacking its associated signal peptide;
- (e)the nucleic acid sequence shown in Figure 51 (SEQ ID NO:51);
- (f)the full-length coding sequence of the nucleic acid sequence shown in Figure 51 (SEQ ID NO:51); or
- (g)the full-length coding sequence of the cDNA deposited under ATCC accession number 203245.

[c7]

The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the polypeptide shown in Figure 52 (SEQ ID NO:52).

[c8]

The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the polypeptide shown in Figure 52 (SEQ ID NO:52), lacking its associated signal peptide.

[c9]

The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence

encoding the extracellular domain of the polypeptide shown in Figure 52 (SEQ ID NO:52).

[c10] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 52 (SEQ ID NO:52), lacking its associated signal peptide.

[c11] The isolated nucleic acid of Claim 6 comprising the nucleic acid sequence shown in Figure 51 (SEQ ID NO:51).

[c12] The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the nucleic acid sequence shown in Figure 51 (SEQ ID NO:51).

[c13] The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the cDNA deposited under ATCC accession number 203245.

[c14] An isolated nucleic acid that hybridizes to:

(a) a nucleic acid sequence encoding the polypeptide shown in Figure 52 (SEQ ID NO:52);

(b) a nucleic acid sequence encoding the polypeptide shown in Figure 52 (SEQ ID NO:52), lacking its associated signal peptide;

(c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 52 (SEQ ID NO:52);

(d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 52 (SEQ ID NO:52), lacking its associated signal peptide;

(e) the nucleic acid sequence shown in Figure 51 (SEQ ID NO:51);

(f) the full-length coding sequence of the nucleic acid sequence shown in Figure 51 (SEQ ID NO:51); or

(g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203245.

[c15] The isolated nucleic acid of Claim 14, wherein said hybridization occurs under stringent conditions.

[c16] The isolated nucleic acid of Claim 14 which is at least 10 nucleotides in length.

[c17] A vector comprising the nucleic acid of Claim 1.

[c18] The vector of Claim 17, wherein said nucleic acid is operably linked to control sequences recognized by a host cell transformed with the vector.

[c19] A host cell comprising the vector of Claim 17.

[c20] The host cell of Claim 19, wherein said cell is a CHO cell, an *E. coli* or a yeast cell.

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